**What is claimed is:**

1      1.  A method of modifying a digital video stream

2  according to the at least one insertion, the method

3  comprising using a computer to perform the steps of:

4          segmenting the digital video stream into at least

5             one video partition;

6          acquiring a plurality of first frames by analyzing

7             at least one video partition;

8          determining a first modification area in the first

9             frame for at least one insertion;

10          modifying the first modification area according to

11             the at least one insertion to acquire a first

12             processed area; and

13          replacing the first modification area of the first

14             frame with the first processed area and thereby

15             generating a final edited digital video stream.

1      2.  The method as claimed in claim 1 further

2  comprising, in the step of modifying the first

3  modification area, if the first modification area of the

4  first frame refers to at least one second frame, the

5  steps of:

6          defining at least one second reference area in the

7             second frame according to the first

8             modification area;

9          modifying the second reference area according to the

10             first modification area to acquire a second

11             processed area; and

12           replacing the second reference area of the second

13                frame with the second processed area.

1         3. The method as claimed in claim 1 further

2     comprising, in the step of modifying the first

3     modification area, if the first modification area refers

4     to the first frame, the steps of:

5           defining at least one first reference area of the

6                first frame according to the first modification

7                area;

8           modifying the first reference area according to the

9                first modification area to acquire a third

10              processed area; and

11          replacing the first reference area of the first

12              frame with the third processed area.

1         4. The method as claimed in claim 2 wherein, in

2     the step of modifying the second reference area, the

3     first modification area and the second reference area are

4     decompressed for modification.

1         5. The method as claimed in claim 2 further

2     comprising, after modification, compressing the first

3     modification area using a video compression algorithm.

1         6. A system of modifying a digital video stream

2     according to the at least one insertion, comprising:

3           a video segmentation unit segmenting the digital

4                video stream into at least one video partition;

5           a video analysis unit acquiring at least one first

6                frame by analyzing at least one video

7                partition, and determining a first modification

8          area corresponding to the at least one

9          insertion;

10   a video processing unit modifying the first

11         modification area according to the at least one

12         insertion to acquire a first processed area;

13         and

14   a video replacement unit replacing the first

15         modification area of the first frame with the

16         first processed area, thereby generating a

17         final edited digital video stream.

1     7. The system as claimed in claim 6 wherein the

2   video processing unit, if the first modification area of

3   the first frame refers to at least one second frame,

4   defines at least one second reference area of the second

5   frame according to the first modification area, modifies

6   the second reference area according to the first

7   modification area to acquire a second processed area, and

8   replaces the second reference area of the second frame

9   with the second processed area.

1     8. The system as claimed in claim 6 wherein the

2   video processing unit, if the first modification area of

3   the first frame refers to the first frame, defines at

4   least one first reference area of the first frame

5   according to the first modification area, modifies the

6   first reference area to acquire a third processed area,

7   and replaces the first reference area of the first frame

8   with the third processed area.

1　9.　The system as claimed in claim 7 wherein the
2　first modification area and the second reference area are
3　decompressed for modifying.

1　10.　The system as claimed in claim 7 wherein in the
2　video processing unit, a video compression algorithm is
3　used to compress the first modification area after
4　processing the first modification area.

1　11.　A storage medium for storing a computer program
2　providing a method of modifying a digital video stream
3　according to the at least one insertion, comprising:
4　　segmenting the digital video stream into at least
5　　　one video partition;
6　　acquiring a plurality of first frames by analyzing
7　　　at least one video partition;
8　　determining a first modification area in the first
9　　　frame for the at least one insertion;
10　　modifying the first modification area according to
11　　　the at least one insertion to acquire a first
12　　　processed area; and
13　　replacing the first modification area of the first
14　　　frame with the first processed area and thereby
15　　　generating a final edited digital video stream.

1　12.　The storage medium as claimed in claim 11 ,
2　further comprising, in the step of modifying the first
3　modification area, if the first modification area of the
4　first frame refers to at least one second frame, the
5　steps of:

6     defining at least one second reference area in the

7         second frame according to the first

8         modification area;

9     modifying the second reference area according to the

10    first modification area to acquire a second

11    processed area; and

12    replacing the second reference area of the second

13    frame with the second processed area.

1     13. The storage medium as claimed in claim 11

2 further comprising, in the step of modifying the first

3 modification area, if the first modification area refers

4 to the first frame, the steps of:

5     defining at least one first reference area of the

6        first frame according to the first modification

7        area;

8     modifying the first reference area according to the

9        first modification area to acquire a third

10       processed area; and

11    replacing the first reference area of the first

12       frame with the third processed area.

1     14. The storage medium as claimed in claim 12

2 wherein, in the step of modifying the second reference

3 area, the first modification area and the second

4 reference area are decompressed for modification.

1     15. The storage medium as claimed in claim 12

2 further comprising, after modification, compressing the

3 first modification area using a video compression

4 algorithm.